

Activity One

1. Examine the two photographs of the moving stream.

2. List differences and similarities

Similarities- both have bubbles, both are of a moving stream

Differences- first picture is slow moving water, few bubbles, many bubbles are floating by themselves, you can see the bottom of the stream, water appears to be clearer

Second picture is fast moving water, bubbles are gathered in groups, water is not clear

3. Predict which photo shows water moving at a greater velocity. Explain why you chose that photo.

The second picture shows a greater velocity. The bubbles show that the water is fast moving because they are gathered together in groups. The water is also unclear, you are not able to see the bottom of the streambed. This shows that the water is moving quickly, thus stirring up the sediments in the stream.

Activity 2 Answers

Averages

Location 1 0.988

Location 2 1.036

Location 3 1.072

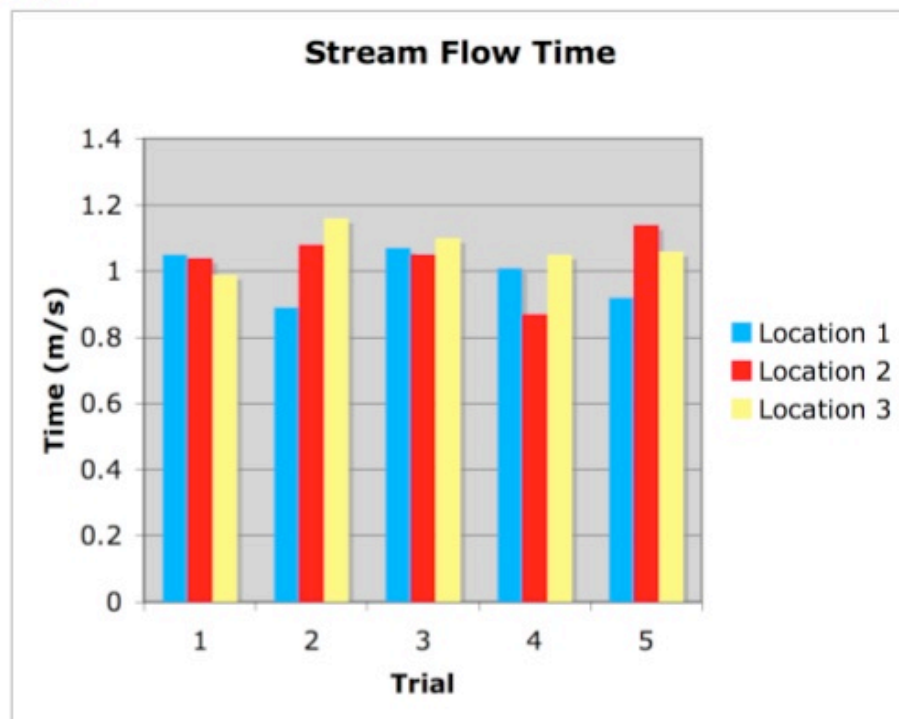
Question 1

In areas with the greater slope or gradient the velocity of the water was greater.

Question 2

The experiment hypothesis was correct. Take any reasonable answer for why.

Graph



Coordinate map

A.

75.33.900 W

39.48.85 N

232.0 ft start

B.

75.33.909 W

39.48.30 N

224 ft start

C.

75.37.929 W

39.48.76 N

217 ft start

Activity 4

Question 1

Answers should include information on erosion, mass wasting, gravity, water velocity, and weathering. Discussion of the way streams meander should be included. Discussion of how some rock erodes faster than others and that that will affect the shape of the stream valley should be evident.

Question 2

10 years

Cross section should show a v-shape with areas of erosion.

50 years

Cross section should depict a greater v-shape with a wider streambed.

100 years

Cross section should show an exaggerated v-shape with a widened streambed.